FIG. 1

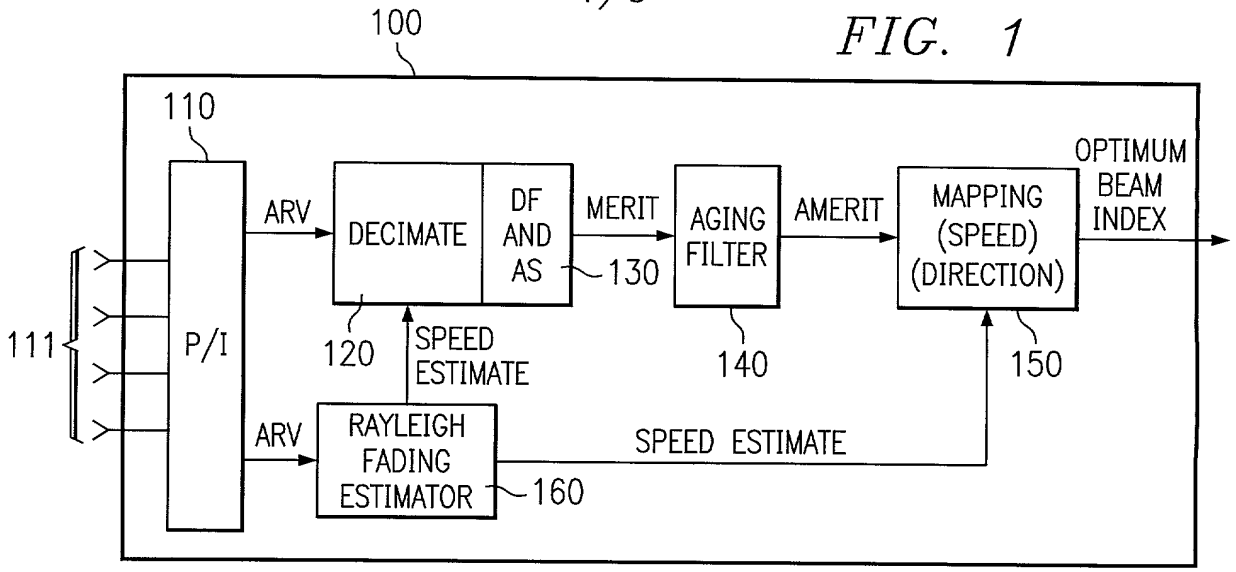


FIG. 2

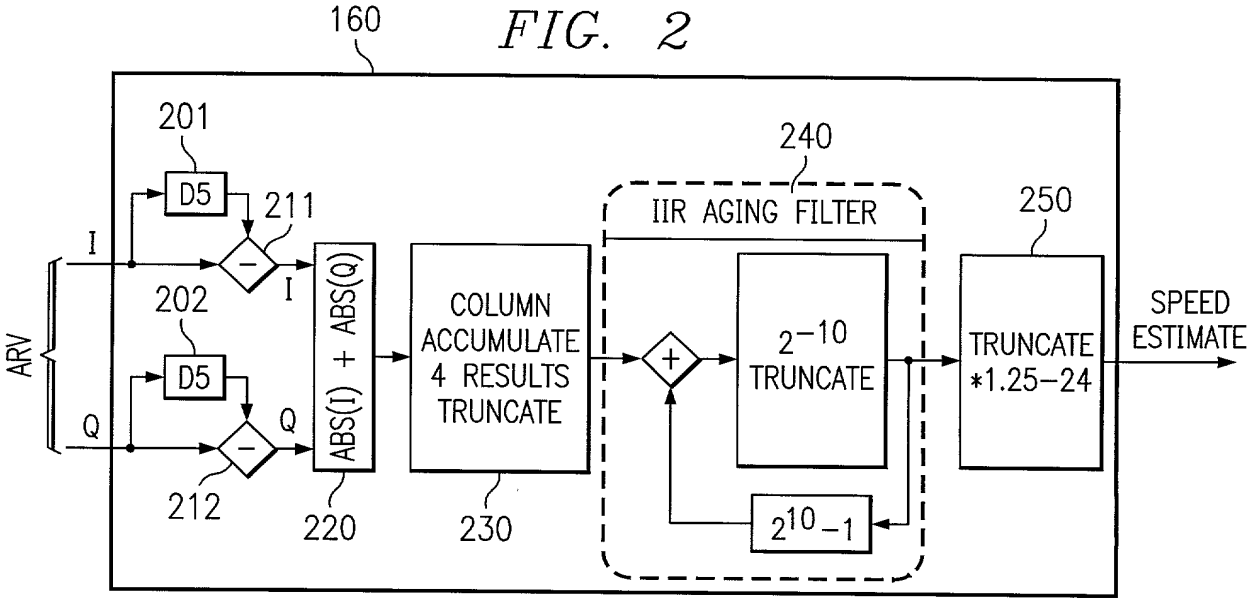
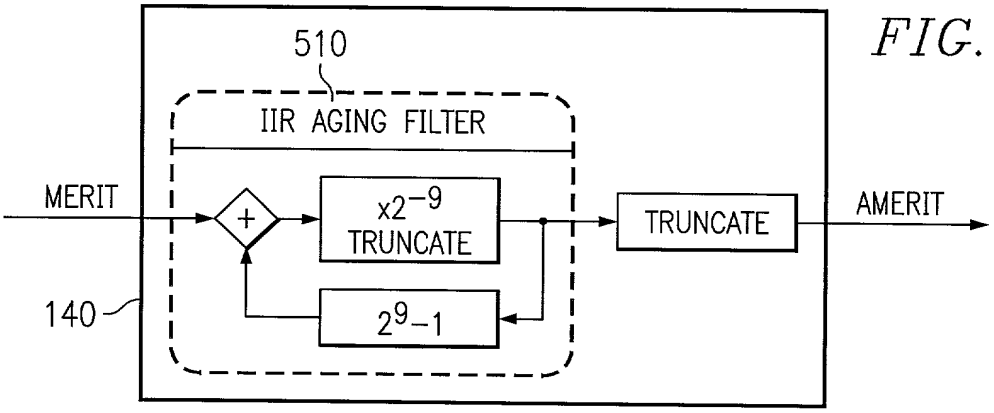


FIG. 5



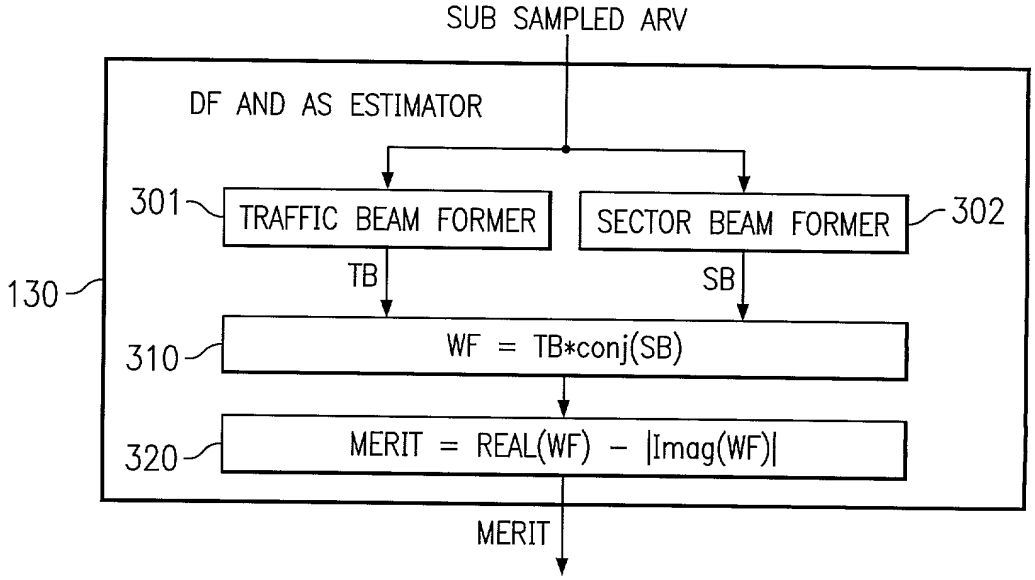

SUB SAMPLED ARV
DF AND AS ESTIMATOR
301
TRAFFIC BEAM FORMER
SECTOR BEAM FORMER
302
130
TB
SB
310
WF = TB*conj(SB)
320
MERIT = REAL(WF) - |Imag(WF)|
MERIT

FIG. 3

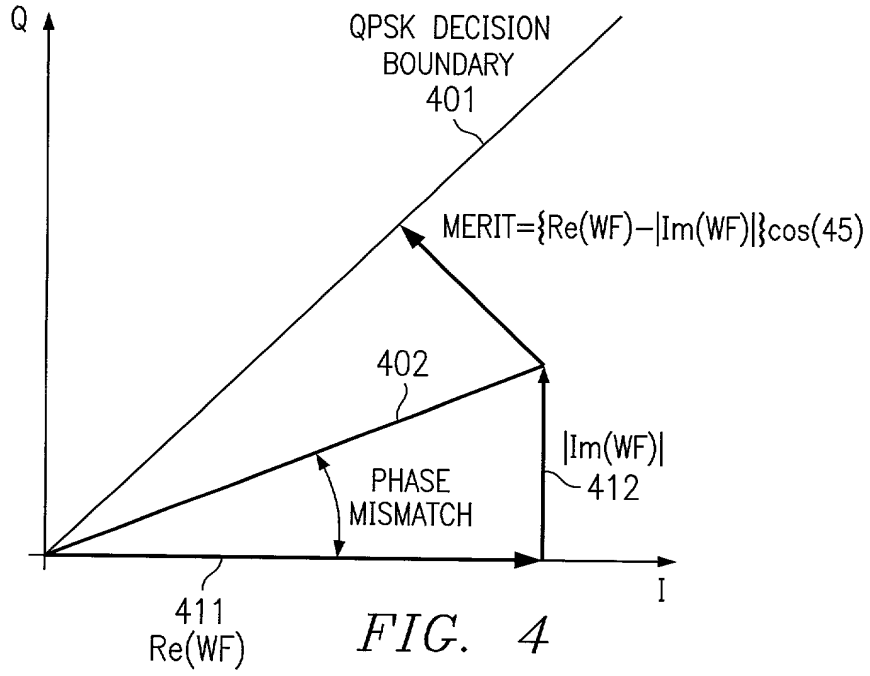

Q
QPSK DECISION
BOUNDARY
401
MERIT={Re(WF)-|Im(WF)|}cos(45)
402
|Im(WF)|
412
PHASE
MISMATCH
I
411
Re(WF)

FIG. 4

FIG. 6A

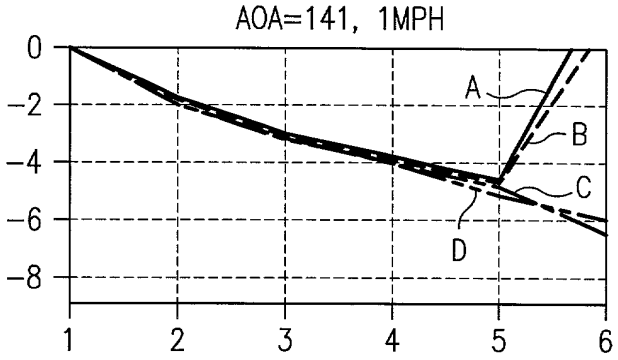


FIG. 6B

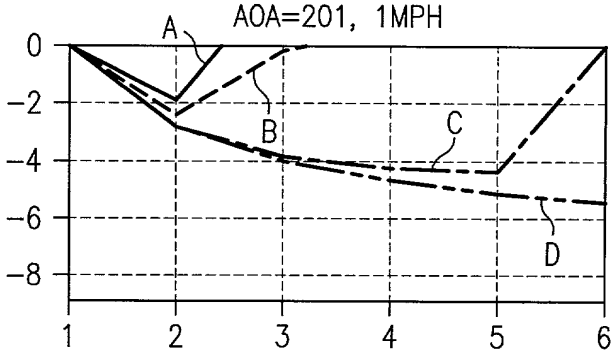


FIG. 6C

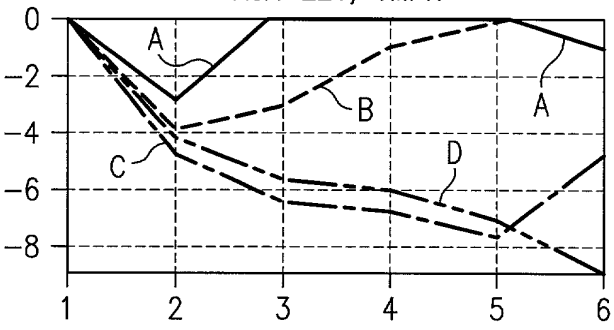


FIG. 6D

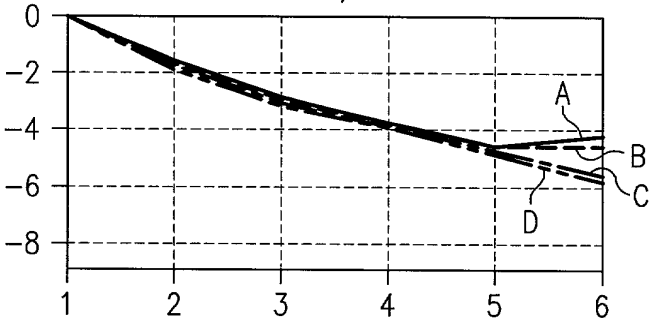


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FIG. 6E

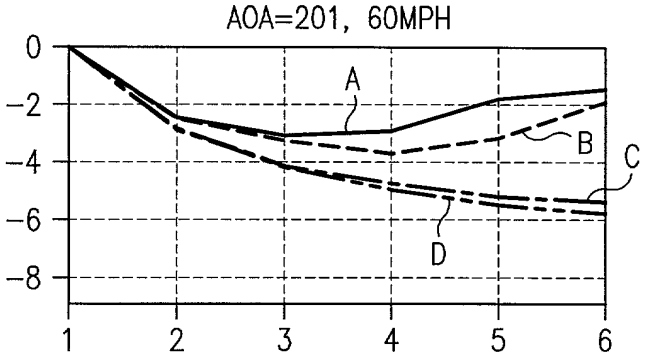

FIG. 6F

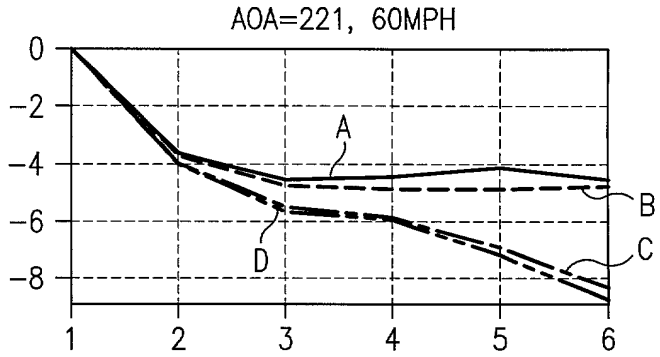

FIG. 7

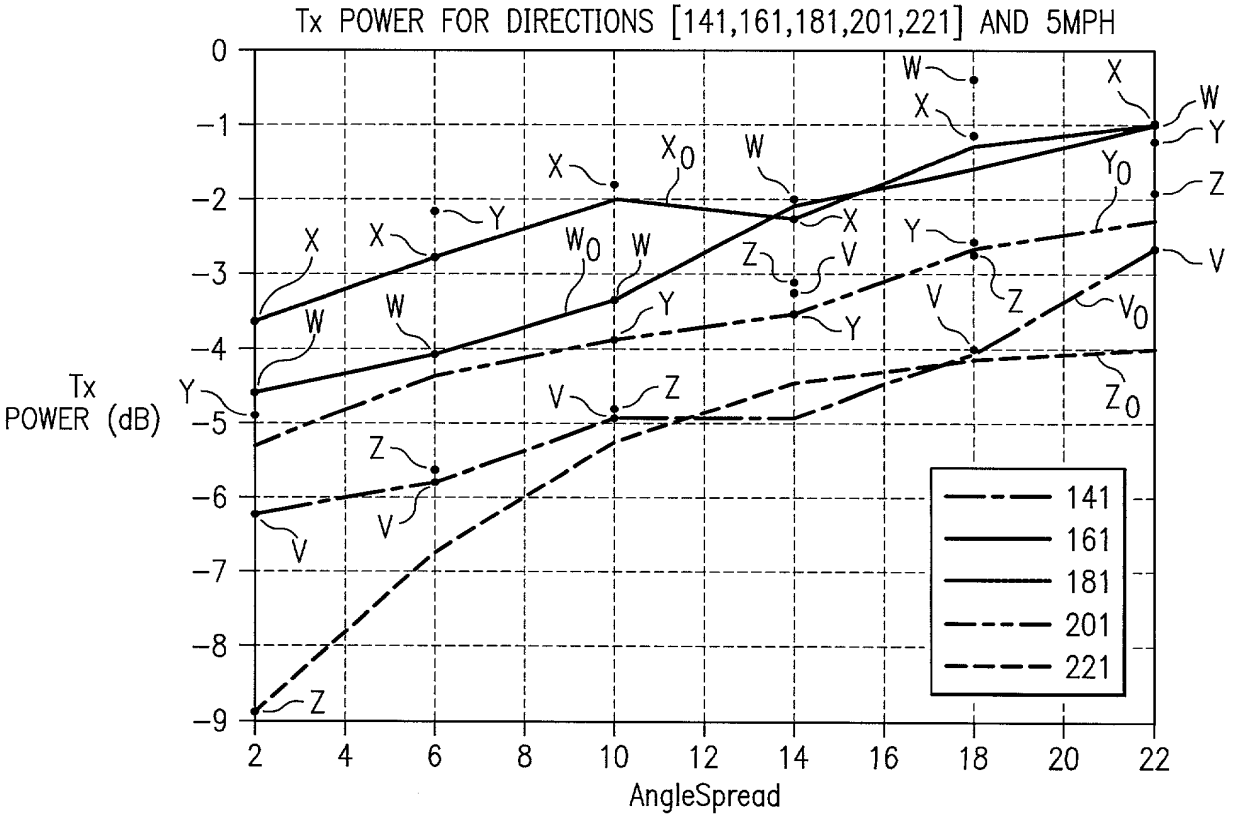

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FIG. 8

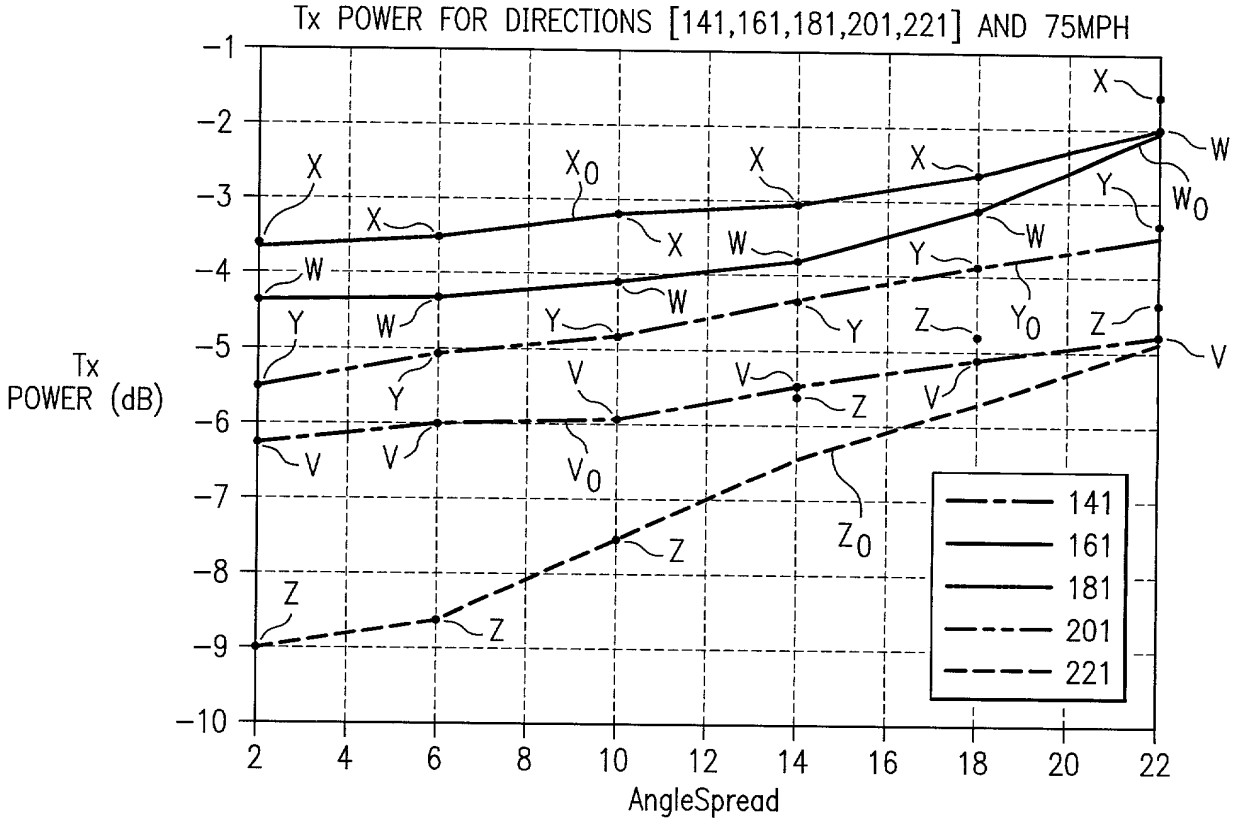
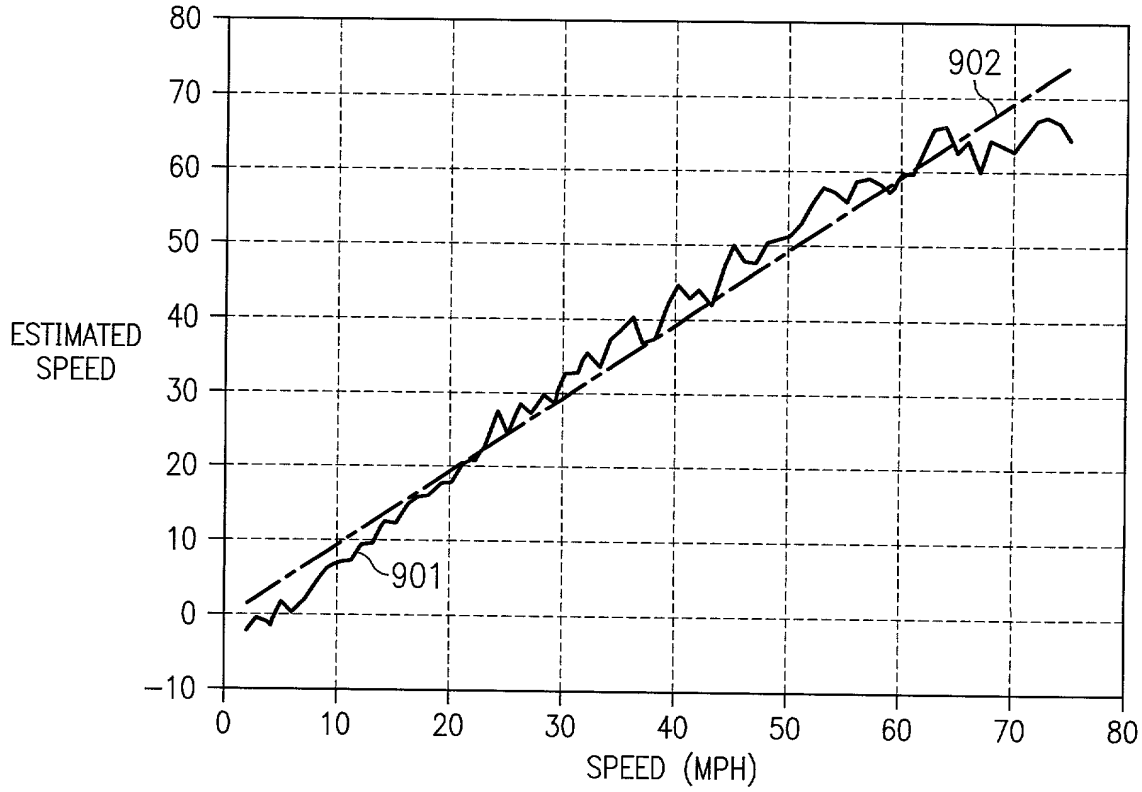

Tx POWER FOR DIRECTIONS [141,161,181,201,221] AND 75MPH
Tx POWER (dB)
AngleSpread
141
161
181
201
221

FIG. 9


ESTIMATED SPEED
SPEED (MPH)
901
902